


```

LL      IIIIII  BBBB BBBB  GGGGGGGG  EEEEEEEEE  TTTTTTTTTT  JJ  PPPPPPPP  IIIIII
LL      IIIIII  BBBB BBBB  GGGGGGGG  EEEEEEEEE  TTTTTTTTTT  JJ  PPPPPPPP  IIIIII
LL      II      BB      GG      EE      TT      JJ  PP      PP
LL      II      BB      GG      EE      TT      JJ  PP      PP
LL      II      BB      GG      EE      TT      JJ  PP      PP
LL      II      BB      GG      EE      TT      JJ  PP      PP
LL      II      BB      GG      EE      TT      JJ  PP      PP
LL      II      BB      GG      EE      TT      JJ  PP      PP
LL      II      BB      GG      EE      TT      JJ  PP      PP
LL      II      BB      GG      EE      TT      JJ  PP      PP
LLLLLLLL  IIIIII  BBBB BBBB  GGGGGG  EEEEEEEEE  TT      JJJJJJ  PP
LLLLLLLL  IIIIII  BBBB BBBB  GGGGGG  EEEEEEEEE  TT      JJJJJJ  PP

LL      IIIIII  SSSSSSSS
LL      IIIIII  SSSSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SSSSSS
LL      II      SSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LLLLLLLL  IIIIII  SSSSSSSS
LLLLLLLL  IIIIII  SSSSSSSS

```



```
1 0001 0 MODULE LIB$GETJPI ( %TITLE 'Get Job/Process Information'
2 0002 0 IDENT = '1-003' ! File: LIBGETJPI.B32 Edit: SBL1003
3 0003 0 ) =
4 0004 1 BEGIN
5 0005 1
6 0006 1 *****
7 0007 1 *
8 0008 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
9 0009 1 * DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
10 0010 1 * ALL RIGHTS RESERVED.
11 0011 1 *
12 0012 1 * THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
13 0013 1 * ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
14 0014 1 * INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
15 0015 1 * COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
16 0016 1 * OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
17 0017 1 * TRANSFERRED.
18 0018 1 *
19 0019 1 * THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
20 0020 1 * AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
21 0021 1 * CORPORATION.
22 0022 1 *
23 0023 1 * DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
24 0024 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
25 0025 1 *
26 0026 1 *
27 0027 1 *****
28 0028 1
29 0029 1
30 0030 1 ++
31 0031 1 FACILITY: General Utility Library
32 0032 1
33 0033 1 ABSTRACT:
34 0034 1
35 0035 1 LIB$GETJPI obtains a specified item of Job/Process information
36 0036 1 and formats it in an appropriate manner.
37 0037 1
38 0038 1 ENVIRONMENT: User mode - AST reentrant
39 0039 1
40 0040 1 AUTHOR: Steven B. Lionel, CREATION DATE: 11-Jan-1983
41 0041 1
42 0042 1 MODIFIED BY:
43 0043 1
44 0044 1 1-001 - Original. SBL 11-Jan-1983
45 0045 1 1-002 - Change format code names to LIB$K_FMT. SBL 11-Mar-1983
46 0046 1 1-003 - Change string length to 512. SBL 11-Mar-1983
47 0047 1 --
48 0048 1
```

```
: 50 0049 1 %SBTTL 'Declarations'
: 51 0050 1
: 52 0051 1 PROLOGUE FILE:
: 53 0052 1
: 54 0053 1
: 55 0054 1 REQUIRE 'RTLIN:LIBPROLOG'; ! Switches, PSECTS, macros
: 56 0125 1
: 57 0126 1
: 58 0127 1 LINKAGES:
: 59 0128 1
: 60 0129 1 NONE
: 61 0130 1
: 62 0131 1 TABLE OF CONTENTS:
: 63 0132 1
: 64 0133 1
: 65 0134 1 FORWARD ROUTINE
: 66 0135 1 LIB$GETJPI; ! Get Job/Process Information
: 67 0136 1
: 68 0137 1
: 69 0138 1 MACROS:
: 70 0139 1
: 71 0140 1 NONE
: 72 0141 1
: 73 0142 1 EQUATED SYMBOLS:
: 74 0143 1
: 75 0144 1 NONE
: 76 0145 1
: 77 0146 1 FIELDS:
: 78 0147 1
: 79 0148 1 NONE
: 80 0149 1
: 81 0150 1 OWN STORAGE:
: 82 0151 1
: 83 0152 1 NONE
: 84 0153 1
: 85 0154 1 EXTERNALS:
: 86 0155 1
: 87 0156 1
: 88 0157 1 EXTERNAL ROUTINE
: 89 0158 1 LIB$GETJPI, ! Internal routine
: 90 0159 1 LIB$ANALYZE_SDESC_R2: LIB$ANALYZE_SDESC_R2$LINKAGE, ! Get length and pointer
: 91 0160 1 LIB$GET_EF, ! Allocate event flag number
: 92 0161 1 LIB$FREE_EF: NOVALUE, ! Free event flag number
: 93 0162 1 LIB$SCOPY_R_DX6: LIB$SCOPY_R_DX6$LINKAGE; ! Copy string by reference.
: 94 0163 1
: 95 0164 1 EXTERNAL LITERAL
: 96 0165 1 LIB$_INVARG, ! Invalid argument
: 97 0166 1 LIB$_STRTRU; ! String truncated
```



```

99 0167 1 %SBTTL 'LIB$GETJPI - Get Job/Process Information'
100 0168 1 GLOBAL ROUTINE LIB$GETJPI (
101 0169 1     ITEM_CODE: REF VECTOR [, WORD],      ! Code of desired item
102 0170 1     PROCESS_ID: REF VECTOR [, LONG],    ! Process identification
103 0171 1     PROCESS_NAME: REF BLOCK [, BYTE],   ! Process name descriptor
104 0172 1     OUT_VALUE: REF VECTOR [, LONG],     ! Output numeric value
105 0173 1     OUT_STRING: REF BLOCK [, BYTE],     ! Output string descriptor
106 0174 1     OUT_LEN: REF VECTOR [, WORD]        ! Output string length
107 0175 1 ) =
108 0176 1
109 0177 1 ++
110 0178 1 FUNCTIONAL DESCRIPTION:
111 0179 1
112 0180 1     LIB$GETJPI provides a simplified interface to the $GETJPI system
113 0181 1     service. It provides accounting, status and identification
114 0182 1     information about a specified process.
115 0183 1
116 0184 1     LIB$GETJPI provides the following features in addition to those
117 0185 1     provided by the $GETJPI system service:
118 0186 1
119 0187 1         Instead of a list of item descriptors, which may be
120 0188 1         difficult to construct in high-level languages, the single
121 0189 1         item desired is specified as an integer code which is passed
122 0190 1         by reference. Results are written to separate arguments.
123 0191 1
124 0192 1         For items which return numeric values, LIB$GETJPI can
125 0193 1         optionally provide a formatted string interpretation of the
126 0194 1         value. For example, if the process UIC is requested,
127 0195 1         LIB$GETJPI can return the UIC formatted as "[g,m]".
128 0196 1
129 0197 1         For string arguments, all string classes supported by the
130 0198 1         Run-Time Library are understood.
131 0199 1
132 0200 1         Calls to LIB$GETJPI are synchronous. LIB$GETJPI calls
133 0201 1         LIB$GET_EF to allocate a local event flag number for
134 0202 1         synchronization.
135 0203 1
136 0204 1         LIB$GETJPI does not provide the ability to obtain more than one
137 0205 1         item of information in a single call. See the description of the
138 0206 1         $GETJPI system service for more information.
139 0207 1
140 0208 1 CALLING SEQUENCE:
141 0209 1
142 0210 1     ret-status.wlc.v = LIB$GETJPI (
143 0211 1         item-code.rw.r,
144 0212 1         [process-id.mlu.r],
145 0213 1         [process-name.rt.dx],
146 0214 1         [out-value.wz.r]
147 0215 1         [, [out-string.wt.dx]
148 0216 1         [, [out-len.ww.r] ]])
149 0217 1
150 0218 1 FORMAL PARAMETERS:
151 0219 1
152 0220 1     item-code
153 0221 1         A longword integer item identifier code that specifies which item
154 0222 1         of information you are requesting. All valid $GETJPI item codes,
155 0223 1         whose names begin with JPI$, are accepted.
```

```
156 0224 1 |
157 0225 1 | process-id
158 0226 1 |   A longword specifying the process identification of the
159 0227 1 |   process for which information is to be returned. If not
160 0228 1 |   specified, process-name is used. The longword is updated to
161 0229 1 |   contain the process identification actually used, which may
162 0230 1 |   be different than what was originally specified if
163 0231 1 |   process-name is specified or if "wild card process
164 0232 1 |   searching" is used.
165 0233 1 |
166 0234 1 | process-name
167 0235 1 |   A string specifying the name of the process for which
168 0236 1 |   information is to be returned. If not specified, process-id
169 0237 1 |   is used. If neither process-name or process-id are
170 0238 1 |   specified, the caller's process is used. See the
171 0239 1 |   description of the process-id argument for more information.
172 0240 1 |
173 0241 1 | out-value
174 0242 1 |   A longword or quadword into which is placed the numeric
175 0243 1 |   value of the information requested. If an item only returns
176 0244 1 |   a string value, this parameter is ignored.
177 0245 1 |
178 0246 1 | out-string
179 0247 1 |   A string into which is placed the string representation of
180 0248 1 |   the information requested. If out-string is not specified,
181 0249 1 |   and the value returned has only a string representation, the
182 0250 1 |   error status LIB$_INVARG is returned.
183 0251 1 |
184 0252 1 | out-len
185 0253 1 |   A word integer into which is placed the number of significant
186 0254 1 |   characters written to out-string, not including blank padding
187 0255 1 |   or truncated characters.
188 0256 1 |
189 0257 1 | IMPLICIT INPUTS:
190 0258 1 |
191 0259 1 |   NONE
192 0260 1 |
193 0261 1 | IMPLICIT OUTPUTS:
194 0262 1 |
195 0263 1 |   NONE
196 0264 1 |
197 0265 1 | COMPLETION STATUS:
198 0266 1 |
199 0267 1 |   SSS_NORMAL      Normal successful completion
200 0268 1 |   LIB$_STRTRU     String truncated. This is an alternate success status.
201 0269 1 |   LIB$_INSEF      Insufficient event flags
202 0270 1 |   LIB$_INVSTRDES  Invalid string descriptor
203 0271 1 |   LIB$_WRONUMARG  Wrong number of arguments
204 0272 1 |   LIB$_xxx        Any error status from LIB$SCOPY_R_DX
205 0273 1 |   SSS_BADPARAM    The item code is not recognized as valid.
206 0274 1 |   SSS_xxx         Any error status from $GETJPI
207 0275 1 |
208 0276 1 | SIDE EFFECTS:
209 0277 1 |
210 0278 1 |   NONE
211 0279 1 |
212 0280 1 | --
```



```
214 0281 2 BEGIN
215 0282 2
216 0283 2 LOCAL
217 0284 2 RET_STRING: VECTOR [512, BYTE],      ! Local string for value
218 0285 2 RET_LENGTH: WORD,                  ! Length of RET_STRING
219 0286 2 RET_NUMBER: VECTOR [2, LONG],      ! Local quadword for value
220 0287 2 RET_TYPE,                          ! Returned type code
221 0288 2 LCL_PRCNAM_DSC: BLOCK [8, BYTE],    ! Local descriptor for PRCNAM
222 0289 2 PRCNAM_DSC_ADR,                    ! Address of PRCNAM descriptor
223 0290 2 EVENT_FLAG,                       ! Event flag number
224 0291 2 STR_STATUS, EF_STATUS, JPI_STATUS, COPY_STATUS; ! Return statuses
225 0292 2
226 0293 2 BUILTIN
227 0294 2 NULLPARAMETER;
228 0295 2
229 0296 2 !+
230 0297 2 ! Validate argument count.
231 0298 2 !-
232 0299 2
233 0300 2 $LIB$VALIDATE_ARGCOUNT (4,6);
234 0301 2
235 0302 2 !+
236 0303 2 ! Build static descriptor for PROCESS_NAME, if any.
237 0304 2 !-
238 0305 2
239 0306 2 IF NULLPARAMETER (3)
240 0307 2 THEN
241 0308 2     PRCNAM_DSC_ADR = 0      ! Omitted
242 0309 2 ELSE
243 0310 2     BEGIN
244 0311 2         LCL_PRCNAM_DSC [DSC$B_DTYPE] = DSC$K_DTYPE_T;
245 0312 2         LCL_PRCNAM_DSC [DSC$B_CLASS] = DSC$K_CLASS_S;
246 0313 2         STR_STATUS = LIB$ANALYZE_SDESC_R2 (PROCESS_NAME [0,0,0,0];
247 0314 2             LCL_PRCNAM_DSC [DSC$B_LENGTH], LCL_PRCNAM_DSC [DSC$A_POINTER]);
248 0315 2         IF NOT .STR_STATUS
249 0316 2             THEN
250 0317 2                 RETURN .STR_STATUS;
251 0318 2         PRCNAM_DSC_ADR = LCL_PRCNAM_DSC;
252 0319 2     END;
253 0320 2
254 0321 2 !+
255 0322 2 ! Allocate an event flag number to use for the $GETJPI.
256 0323 2 !-
257 0324 2
258 0325 2 EF_STATUS = LIB$GET_EF (EVENT_FLAG);
259 0326 2 IF NOT .EF_STATUS
260 0327 2 THEN
261 0328 2     RETURN .EF_STATUS;
262 0329 2
263 0330 2 !+
264 0331 2 ! Call LIB$$GETJPI to do the work.
265 0332 2 !-
266 0333 2
267 0334 2 JPI_STATUS = LIB$$GETJPI (
268 0335 2     .ITEM_CODE [0],
269 0336 2     RET_STRING,
270 0337 2     RET_NUMBER,
```

```
271 0338 2      RET_LENGTH,  
272 0339 2      RET_TYPE,  
273 0340 2      .EVENT_FLAG  
274 0341 2      PROCESS_ID [0],  
275 0342 2      .PRCNAM_DSC_ADR);  
276 0343 2  
277 0344 2      !+  
278 0345 2      !- Free the event flag.  
279 0346 2      !-  
280 0347 2  
281 0348 2      LIB$FREE_EF (EVENT_FLAG);  
282 0349 2  
283 0350 2      !+  
284 0351 2      !- Check for errors.  
285 0352 2      !-  
286 0353 2  
287 0354 2      IF NOT .JPI_STATUS  
288 0355 2      THEN  
289 0356 2      RETURN .JPI_STATUS;  
290 0357 2  
291 0358 2      !+  
292 0359 2      !- Copy the numeric value, if desired.  
293 0360 2      !-  
294 0361 2  
295 0362 2      IF OUT_VALUE [0] NEQA 0  
296 0363 2      THEN  
297 0364 2      BEGIN  
298 0365 2      IF .RET_TYPE GTRU LIB$K_FMT_MAXSTRING ! Is it a number?  
299 0366 2      THEN  
300 0367 2      BEGIN  
301 0368 2      OUT_VALUE [0] = .RET_NUMBER [0];  
302 0369 2      IF .RET_TYPE EQL LIB$K_FMT_DATE OR  
303 0370 2      .RET_TYPE EQL LIB$K_FMT_PRIVILEGE  
304 0371 2      THEN  
305 0372 2      OUT_VALUE [1] = .RET_NUMBER [1]; ! Store second longword  
306 0373 2      END;  
307 0374 2      END;  
308 0375 2  
309 0376 2      !+  
310 0377 2      !- Store string value if desired.  
311 0378 2      !-  
312 0379 2  
313 0380 2      IF NOT NULLPARAMETER (5)  
314 0381 2      THEN  
315 0382 2      BEGIN  
316 0383 2      COPY_STATUS = LIB$COPY_R_DX6 (.RET_LENGTH, RET_STRING,  
317 0384 2      OUT_STRING [0,0,0,0]);  
318 0385 2      IF NOT NULLPARAMETER (6)  
319 0386 2      THEN  
320 0387 2      BEGIN  
321 0388 2      !+  
322 0389 2      !- Store result string length.  
323 0390 2      !-  
324 0391 2      OUT_LEN [0] = .RET_LENGTH;  
325 0392 2      IF .COPY_STATUS EQLU LIB$STRTRU  
326 0393 2      THEN  
327 0394 2      LIB$ANALYZE_SDESC_R2 (OUT_STRING [0,0,0,0]; OUT_LEN [0]);
```


LIB\$GETJPI
1-003

Get Job/Process Information.
LIB\$GETJPI - Get Job/Process Information

G 10
16-Sep-1984 01:01:41
14-Sep-1984 12:38:59

VAX-11 Bliss-32 V4.0-742
[LIBRTL.SRC]LIB\$GETJPI.B32;1

Page 7
(4)

```

: 328      0395      3      END;
: 329      0396      3      RETURN .COPY_STATUS;
: 330      0397      3      END
: 331      0398      3      ELSE IF .RET_TYPE LEQU LIB$K_FMT_MAXSTRING
: 332      0399      3      THEN
: 333      0400      3      RETURN LIB$_INVARG;      ! Only string value, but nothing to return it in
: 334      0401      3
: 335      0402      3      RETURN $$$_NORMAL;      ! Success
: 336      0403      3
: 337      0404      1      END;

```

! End of routine LIB\$GETJPI

.TITLE LIB\$GETJPI Get Job/Process Information
.IDENT \1-003\

.EXTRN LIB\$\$GETJPI, LIB\$ANALYZE_SDESC_R2
.EXTRN LIB\$GET_EF, LIB\$FREE_EF
.EXTRN LIB\$COPY_R_DX6
.EXTRN LIB\$_INVARG, LIB\$_STRTRU
.EXTRN LIB\$_WRONUMARG

.PSECT _LIB\$CODE, NOWRT, SHR, PIC, 2

.ENTRY LIB\$GETJPI, Save R2, R3, R4, R5, R6, R7

MOVAB LIB\$ANALYZE_SDESC_R2, R7

MOVAB -540(SP), SP

SUBB3 #4, (AP), DIFF

CMPB DIFF, #2

BLEQU 1\$

MOVL #LIB\$_WRONUMARG, R0

RET

CMPB (AP), #3

BLSSU 2\$

TSTL 12(AP)

BNEQ 3\$

CLRL PRCNAM_DSC_ADR

BRB 4\$

MOVW #270, LCL_PRCNAM_DSC+2

MOVL PROCESS_NAME, R0

LIB\$ANALYZE_SDESC_R2

R1, LCL_PRCNAM_DSC

R2, LCL_PRCNAM_DSC+4

BLBC STR_STATUS, 5\$

MOVAB LCL_PRCNAM_DSC, PRCNAM_DSC_ADR

PUSHAB EVENT_FLAG

CALLS #1, LIB\$GET_EF

BLBS EF_STATUS, 6\$

RET

PUSHL PRCNAM_DSC_ADR

PUSHL PROCESS_ID

PUSHL EVENT_FLAG

PUSHAB RET_TYPE

PUSHAB RET_LENGTH

PUSHAB RET_NUMBER

PUSHAB RET_STRING

MOVZWL @ITEM_CODE, -(SP)

CALLS #8, LIB\$\$GETJPI

```

50      57 00000000G 00 00FC 00000
      5E      FDE4  CE 9E 00002
      6C      04 83 0000E
      02      50 91 00012
      50 00000000G 08 1B 00015
      03      8F D0 00017
      03      04 0001E
      03      6C 91 0001F 1$:
      03      05 1F 00022
      03      OC AC D5 00024
      03      04 12 00027
      03      53 D4 00029 2$:
      03      1B 11 0002B
      0E AE 010E 8F B0 0002D 3$:
      50      OC AC D0 00033
      0C AE 67 16 00037
      10 AE 51 B0 00039
      0E AE 52 D0 0003D
      53      OC 50 E9 00041
      03      OC AE 9E 00044
      03      08 AE 9F 00048 4$:
      00000000G 00 01 01 FB 0004B
      01      50 E8 00052 5$:
      01      04 00055
      03      53 DD 00056 6$:
      08 AC DD 00058
      10 AE DD 0005B
      0C AE 9F 0005E
      14 AE 9F 00061
      28 AE 9F 00064
      34 AE 9F 00067
      00000000G 7E 04 BC 3C 0006A
      00      08 FB 0006E

```

```

: 0168
:
: 0300
:
: 0306
:
: 0308
:
: 0311
: 0314
:
: 0315
: 0318
: 0325
:
: 0326
:
: 0342
: 0341
:
: 0334
:
: 0341
:

```

52		50	D0	00075	MOVL	R0, JPI STATUS	:	
	08	AE	9F	00078	PUSHAB	EVENT_FLAG	:	0348
00000000G	00	01	FB	0007B	CALLS	#1, LIB\$FREE_EF	:	
	04	52	E8	00082	BLBS	JPI_STATUS, 7\$	:	0354
	50	52	D0	00085	MOVL	JPI_STATUS, R0	:	0356
			04	00088	RET		:	
	50	10	AC	D0	00089	7\$: MOVL	OUT_VALUE, R0	0362
			18	13	0008D	BEQL	9\$	
	03		6E	D1	0008F	CMPL	RET_TYPE, #3	0365
			13	1B	00092	BLEQU	9\$	
	60	14	AE	D0	00094	MOVL	RET_NUMBER, (R0)	0368
	0B		6E	D1	00098	CMPL	RET_TYPE, #11	0369
			05	13	0009B	BEQL	8\$	
	0C		6E	D1	0009D	CMPL	RET_TYPE, #12	0370
			05	12	000A0	BNEQ	9\$	
04	A0	18	AE	D0	000A2	8\$: MOVL	RET_NUMBER+4, 4(R0)	0372
	05		6C	91	000A7	9\$: CMPB	(AP), #5	0380
			40	1F	000AA	BLSSU	11\$	
		14	AC	D5	000AC	TSTL	20(AP)	
			3B	13	000AF	BEQL	11\$	
	51	1C	AE	9E	000B1	MOVA3	RET_STRING, R1	0383
	52	14	AC	D0	000B5	MOVL	OUT_STRING, R2	0384
	50	04	AE	3C	000B9	MOVZWL	RET_LENGTH, R0	
		00000000G	00	16	000BD	JSB	LIB\$COPY_R DX6	
	53		50	D0	000C3	MOVL	R0, COPY_STATUS	
	06		6C	91	000C6	CMPB	(AP), #6	0385
			1D	1F	000C9	BLSSU	10\$	
		18	AC	D5	000CB	TSTL	24(AP)	
			18	13	000CE	BEQL	10\$	
18	BC	04	AE	B0	000D0	MOVW	RET_LENGTH, @OUT_LEN	0391
00000000G	8F		53	D1	000D5	CMPL	COPY_STATUS, #LIB\$_STRTRU	0392
			0A	12	000DC	BNEQ	10\$	
	50	14	AC	D0	000DE	MOVL	OUT_STRING, R0	0394
			67	16	000E2	JSB	LIB\$ANALYZE_SDESC_R2	
18	BC		51	B0	000E4	MOVW	R1, @OUT_LEN	
	50		53	D0	000E8	10\$: MOVL	COPY_STATUS, R0	0396
				04	000EB	RET		
	03		6E	D1	000EC	11\$: CMPL	RET_TYPE, #3	0398
			08	1A	000EF	BGTRU	12\$	
	50	00000000G	8F	D0	000F1	MOVL	#LIB\$_INVARG, R0	0400
				04	000F8	RET		
	50		01	D0	000F9	12\$: MOVL	#1, R0	0402
				04	000FC	RET		0404

; Routine Size: 253 bytes, Routine Base: _LIB\$CODE + 0000

LIB\$GETJPI
1-003

Get Job/Process Information
LIB\$GETJPI - Get Job/Process Information

I 10
16-Sep-1984 01:01:41
14-Sep-1984 12:38:59

VAX-11 Bliss-32 V4.0-742
[LIBRTL.SRC]LIBGETJPI.B32;1

Page 9
(5)

: 339 0405 1 END
: 340 0406 1
: 341 0407 0 ELUDOM

! End of module LIB\$GETJPI

PSECT SUMMARY

: Name Bytes Attributes
: _LIB\$CODE 253 NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	7	0	581	00:00.7
_\$255\$DUA28:[LIBRTL.OBJ]RTLLIB.L32;1	36	6	16	8	00:00.1

COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACE/LIS=LIS\$:LIBGETJPI/OBJ=OBJ\$:LIBGETJPI MSRC\$:LIBGETJPI/UPDATE=(ENH\$:LIBGETJPI
:)

: Size: 253 code + 0 data bytes
: Run Time: 00:05.0
: Elapsed Time: 00:32.7
: Lines/CPU Min: 4913
: Lexemes/CPU-Min: 17396
: Memory Used: 102 pages
: Compilation Complete

0207 AH-BT13A-SE
VAX/VMS V4.0

DIGITAL EQUIPMENT CORPORATION
CONFIDENTIAL AND PROPRIETARY

